

Title (en)

Aqueous silane coupling agent solution for use as a sealant primer

Title (de)

Wässrige Lösung von Silan-Haftvermittler zur Verwendung als Grundierung für Dichtungsmittel

Title (fr)

Solution aqueuse d'agent de couplage à base de silanes et son utilisation comme couche de fond pour agent d'étanchéité

Publication

EP 0577014 B1 19970108 (EN)

Application

EP 93110139 A 19930624

Priority

US 90442292 A 19920626

Abstract (en)

[origin: EP0577014A1] An aqueous primer composition for facilitating and promoting good adhesion across an interface between a nonporous substrate and a polymeric coating composition contains from about 0.05 to about 0.3 parts by weight of an aminopropylsilane or a mercaptopropylsilane per 100 parts by weight of water and, optionally to facilitate adhesion under wet conditions, up to about 0.4 parts by weight of a hydrophobic silane per 100 parts by weight of water and aminopropylsilane or mercaptopropylsilane. The primer composition is nontoxic, nonflammable and free or substantially free of any environmentally undesirable volatile organic components. In accordance with a preferred aspect of the invention, the primer composition includes an effective amount of a conventional surfactant sufficient to uniformly wet the surface of the substrate to enable uniform dispersion of the silane coupling agent over the surface. The primer composition is also preferably adjusted to a pH of from about 2.0 to about 5.5 to inhibit condensation or oligomerization of the silane coupling agent and thereby increase the useful shelf-life of the composition.

IPC 1-7

C09K 3/10; **C03C 27/04**; **C04B 41/49**

IPC 8 full level

B65D 47/20 (2006.01); **B65D 47/42** (2006.01); **C03C 17/30** (2006.01); **C03C 27/04** (2006.01); **C04B 41/49** (2006.01); **C04B 41/52** (2006.01); **C09K 3/10** (2006.01)

CPC (source: EP US)

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